**Amendments to the Claims**:

The listing of claims will replace all prior versions, and listings, of claims

in the application:

**Listing of Claims**:

1. (Currently Amended) A method for synchronous serial

communication comprising the step of transmitting data serially through data

lines in synchrony with timing signals sent through clock line, wherein:

if it is required to transmit a specified length of serial data, the data

receiving component is caused to store the specified-length of serial-data

previously received; and

there are available a first mode, or the conventional synchronous which is

a serial communication under which data are transmitted without being divided

into blocks, and a second mode under which data to be transmitted are divided

into blocks, firstly transmitted is block information notifying the block(s) to be

transmitted, and then secondly transmitted are the data included in the block(s)

notified by the block information, and, on the data for the block(s) in which data

remain unchanged, included in the block(s) not notified, the corresponding

previous data stored in the a data receiving component are used; and

the number of clock signals time required for the a data transmission

based on the first mode, the number of clock signals and time required for the

data transmission based on the second mode are calculated, and compared, and

Page 15 of 33

Application No. 09/937,611

Amendment Date: September 29, 2005

Reply to Office Action

transmission of the data is achieved through the mode that is found to give the

less number of clock signals have less time for transmission of the data.

2. (Currently Amended) A method for synchronous serial

communication as described in claim 1, wherein the block information which is

currently transmitted is compared with the block information which was

previously transmitted, and, if when it is found the block(s) in which data are

currently changed is (are) the same with the block(s) in which data were

previously changed, a third mode is chosen under which the current block

information is omitted, and the data included in the block(s) corresponding to the

one(s) of the previous block information are transmitted in succession, and, on

the data for other block(s), the corresponding previous data stored in the data

receiving component are used, and

data is sent/received in the mode with the least time for

transmission among time for transmission in the first, second or third mode.

3. (Currently Amended) A method for synchronous serial

communication as described in claim 1, wherein, if when it is required to

transmit data, mode information notifying under which mode the transmission of

the data will be achieved is attached to the data to be transmitted.

Page 16 of 33

4. (Currently Amended) Α method for synchronous serial

communication as described in claim 1, 2, 3 or 9, wherein the serial data are

divided into blocks by bytes.

5. (Currently Amended) system for svnchronous serial

communication which comprises a data transmitting component comprising:

a storage means to store data fed by an external device;

a decision means to calculate the a number of clock signals required

for the transmission of said data for each of the a number of transmission modes

above, and to decide which mode will allow the transmission of said data to occur

in the least number of clock signals; and

an output means to choose the mode which has been decided by the

decision means as allowing the transmission of said data to occur in the least

number of clock signals, to read said data stored in the storage means, and to

transmit said data through the communication mode thus chosen.

6. (Currently Amended) Α system for serial synchronous

communication which comprises a data receiving component comprising:

a storage means to store data;

an analysis means to identify the a communication mode of received

data based on the a received mode information; and

Application No. 09/937,611 Amendment Date: September 29, 2005

Reply to Office Action

a control means to cause the received data to be stored in the

storage means according to the mode identified by the analysis means.

(Currently Amended) A method for synchronous serial

communication as described in claim 1, 2, 3 or 9, wherein, if when it is required

to transmit a command which concerns with the treatment of data already

transmitted, firstly transmitted is command data indicating the current data

carries a command concerning with the treatment of the data already

transmitted, and then transmitted is said block information from which it is

possible to identify the block(s) to be treated out of the data previously

transmitted.

7.

8. (Currently Amended) A method for synchronous serial

communication as described in claim 7, wherein said command includes at least

either an invert command or a bit shaft shift command.

9. (Currently Amended) A method for synchronous serial

communication as described in claim 2, wherein, if when it is required to

transmit data, mode information notifying under which mode the transmission of

the data will be achieved is attached to the data to be transmitted.

Page 18 of 33

Application No. 09/937,611 Amendment Date: September 29, 2005

Reply to Office Action

10. (Currently Amended) A method for synchronous serial

communication as described in claim 5, wherein, if when it is required to

transmit a command which concerns with the treatment of data already

transmitted, firstly transmitted is command data indicating the current data

carries a command concerning with the treatment of the data already

transmitted, and then transmitted is said block information from which it is

possible to identify the block(s) to be treated out of the data previously

transmitted.

11. (Currently Amended) A method for synchronous serial

communication as described in claim 10, wherein said command includes at least

either an invert command or a bit shaft shift command.

12. (Currently Amended) A system for synchronous serial

communication which comprises a data transmitting component comprising:

a memory coupled to receive and store data fed by an external

device;

a processing unit which calculates the a number of clock signals

required for the transmission of said data for each of the a number of

transmission modes above, and decides which mode will allow the transmission

of said data to occur in the least number of clock signals; and

Page 19 of 33

a selector unit, which selects a mode which has been decided by the

processing unit, to read said data stored in the memory, and to transmit said

data through the communication mode thus chosen.

13. (Currently Amended) A system for synchronous serial

communication which comprises a data receiving component comprising:

a memory which stores data;

an analysis unit which identifies a communication mode of received

data based on the received mode information; and

a control unit which causes the received data to be stored in the

memory according to the mode identified by the analysis unit.

14. (New) The system of claim 5, wherein:

there are available a first mode, which is a serial communication under

which data are transmitted without being divided into blocks, and a second mode

under which data to be transmitted are divided into blocks, firstly transmitted is

block information notifying the block(s) to be transmitted, and secondly

transmitted are the data included in the block(s) notified by the block

information, and, on the data included in the block(s) not notified, the

corresponding previous data stored in a data receiving component are used; and

time required for a data transmission based on the first mode, and time

required for the data transmission based on the second mode are calculated, and

Page 20 of 33

Application No. 09/937,611

Amendment Date: September 29, 2005

Reply to Office Action

compared, and transmission of the data is achieved through the mode that is

found have less time for transmission of the data.

15. (New) The system of claim 14, wherein, when it is required to

transmit data, mode information notifying under which mode the transmission of

the data will be achieved is attached to the data to be transmitted.

16. (New) The system of claim 14, wherein the serial data are divided

into blocks by bytes.

17. (New) The system of claim 6, wherein:

there are available a first mode, which is a serial communication under

which data are transmitted without being divided into blocks, and a second mode

under which data to be transmitted are divided into blocks, firstly transmitted is

block information notifying the block(s) to be transmitted, and secondly

transmitted are the data included in the block(s) notified by the block

information, and, on the data included in the block(s) not notified, the

corresponding previous data stored in a data receiving component are used; and

time required for a data transmission based on the first mode, and time

required for the data transmission based on the second mode are calculated, and

compared, and transmission of the data is achieved through the mode that is

found have less time for transmission of the data.

Page 21 of 33

Application No. 09/937,611

Amendment Date: September 29, 2005

Reply to Office Action

18. (New) The system of claim 17, wherein, when it is required to

transmit data, mode information notifying under which mode the transmission of

the data will be achieved is attached to the data to be transmitted.

19. (New) The system of claim 17, wherein the serial data are divided

into blocks by bytes.

20. (New) The system of claim 12, wherein:

there are available a first mode, which is a serial communication under

which data are transmitted without being divided into blocks, and a second mode

under which data to be transmitted are divided into blocks, firstly transmitted is

block information notifying the block(s) to be transmitted, and secondly

transmitted are the data included in the block(s) notified by the block

information, and, on the data included in the block(s) not notified, the

corresponding previous data stored in a data receiving component are used; and

time required for a data transmission based on the first mode, and time

required for the data transmission based on the second mode are calculated, and

compared, and transmission of the data is achieved through the mode that is

found have less time for transmission of the data.

Page 22 of 33

21. (New) The system of claim 20, wherein, when it is required to

transmit data, mode information notifying under which mode the transmission of

the data will be achieved is attached to the data to be transmitted.

22. (New) The system of claim 20, wherein the serial data are divided

into blocks by bytes.

23. (New) The system of claim 13, wherein:

there are available a first mode, which is a serial communication under

which data are transmitted without being divided into blocks, and a second mode

under which data to be transmitted are divided into blocks, firstly transmitted is

block information notifying the block(s) to be transmitted, and secondly

transmitted are the data included in the block(s) notified by the block

information, and, on the data included in the block(s) not notified, the

corresponding previous data stored in a data receiving component are used; and

time required for a data transmission based on the first mode, and time

required for the data transmission based on the second mode are calculated, and

compared, and transmission of the data is achieved through the mode that is

found have less time for transmission of the data.

Page 23 of 33

Application No. 09/937,611 Amendment Date: September 29, 2005

Reply to Office Action

24. (New) The system of claim 23, wherein, when it is required to

transmit data, mode information notifying under which mode the transmission of

the data will be achieved is attached to the data to be transmitted.

25. (New) The system of claim 23, wherein the serial data are divided

into blocks by bytes.